Borough of Beverley.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH,

J. P. PARK, M.D.,

For the Year 1898.

BEVERLEY:

J. KEMP AND SON, PRINTERS, MARKET PLACE.



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TO THE MAYOR, ALDERMEN, AND BURGESSES OF THE BOROUGH OF BEVERLEY, ACTING AS THE URBAN SANITARY AUTHORITY.

Gentlemen,

I have the honour to submit to you the following Report for the year 1898.

I am, Gentlemen,

Your obedient Servant,

J. P. PARK, M.D.,

Medical Officer of Health.

SANITARY COMMITTEE.

Chairman—Mr. Alderman FARRAH.

The MAYOR,

Mr. Alderman FARRAH,

Mr. Alderman GREEN,

Mr. Alderman SPENCER,

Mr. Councillor ADAMS,

Mr. Councillor ARDEN,

Mr. Councillor BOOTH,

Mr. Councillor HIND,

Mr. Councillor MILLETT,

Mr. Councillor PROCTER,

Mr. Councillor RANEY,

Mr. Councillor SHEPHERDSON,

Mr. Councillor WHITEHEAD.

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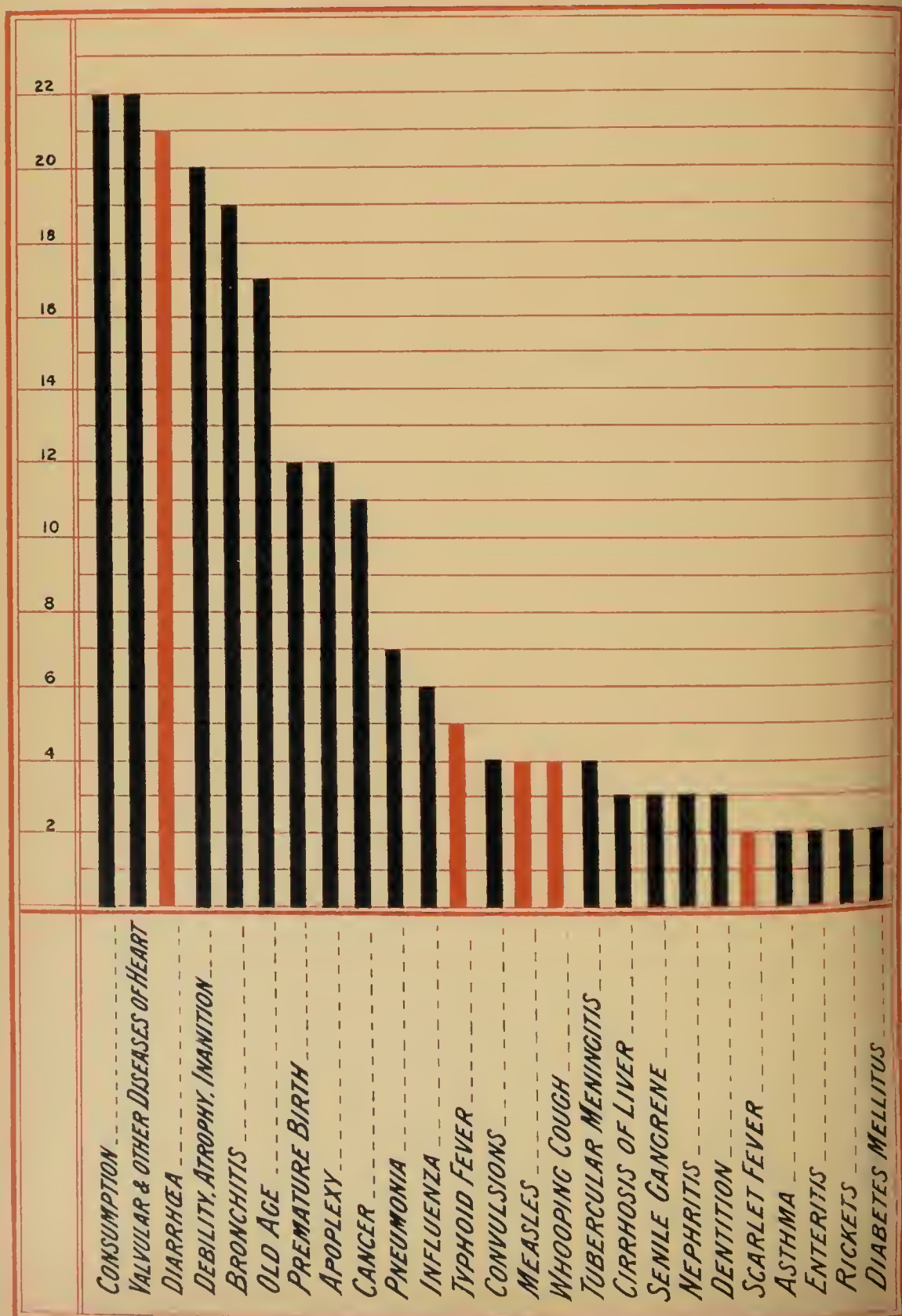
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BOROUGH OF BEVERLEY.

Report, 1898.

VITAL AND MORTAL STATISTICS.

BIRTHS.

According to the Returns received from the Registrar, the number of births registered in the Beverley Urban Sanitary District during the 12 months ending 31st December, 1898, was 416: 235 males and 181 females, showing a birth rate of 31·1 per 1,000 per annum. The number of births registered during the three previous years was 424 in 1897, 428 in 1896, and 398 in 1895. The increase of births over deaths, representing the natural increase of the population, was 166 in 1898, 187 in 1897, 179 in 1896, and 130 in 1895.

DEATHS.

The number of deaths registered during the year 1898 was 250: 229 in the Borough and 21 in the Workhouse, as against a total of 237 in the previous twelve months and an average of 244 for the past twenty-five years.

The annual death rate from all causes for the year under notice was 18·7 per 1,000 of a population of 13,350 of all ages, the official estimated population to the month of April, 1898, residing in 3,279 houses, this being four persons to each inhabited house.

The average density of population for 1898 is estimated at 11 persons per acre. The density of population of the 33 largest towns in England ranges from 8·3 in Huddersfield to 97·3 persons per acre in Liverpool.

The rateable value of the Borough is estimated at £47,532, divided amongst the Parishes as follows:—

St. Martin's	£18222	10	0
St. Mary's	20054	10	0
St. Nicholas'	9255	0	0
	£47532	0	0

The area of the Borough is 1,194a. 2r. 27p., exclusive of 1,217 acres of Common Pasture Land.

The average death rate of the Town for the past 25 years was 20·4 per 1,000 per annum.

Table showing the average annual death rate from all causes and from Zymotic diseases in successive quinquennia from 1874 to 1898 inclusive :—

	General Death Rate.	Zymotic Death Rate.
1874 to 1878.	20·5 per 1,000	1·5 per 1,000
1879 to 1883.	20·5 ,,	1·4 ,,
1884 to 1888.	20·4 ,,	1·8 ,,
1889 to 1893.	22·0 ,,	2·2 ,,
1894 to 1898.	18·5 ,,	2·0 ,,

INFANTILE MORTALITY.

The infantile mortality, measured by the proportion of deaths under one year of age to births registered, was 170 per 1,000.

During the years 1895, 1896, and 1897 the proportion of deaths to registered births was 211, 157, and 153 per 1,000 respectively.

The average infantile mortality for the last four years was 172 per 1,000, which is much too high for a town like Beverley, where pure milk should be so easily obtained, and where overcrowding does not exist to anything like the same extent as in large cities.

The following Table gives the chief causes of death under one year of age, for the years 1895, 1896, 1897, and 1898 :—

	1898.	1897.	1896.	1895.
Diarrhœa	11	8	10	20
Bronchitis	8	7	12	9
Debility, Atrophy, Inanition ...	18	17	8	16
Convulsions	3	8	5	8
Premature Birth...	12	3	12	4
Pneumonia	3	4	3	3
Enteritis and Dysentery... ...	2	3	2	4
Dentition	2	0	0	6
Congenital Malformations ...	2	1	0	2
Whooping Cough	1	4	4	0
Simple Meningitis	1	1	3	2
Erysipelas	0	1	0	2
Laryngismus Stridulus	0	1	3	0
Diphtheria	0	1	0	1
Measles	1	0	1	0
Other	7	6	4	7
	71	65	67	84

The following Table gives the population, number of deaths in the Borough and Workhouse, and annual death rate with corresponding Zymotic rate for the years 1874 to 1898 inclusive:

Year.	Population.	Deaths in Borough.	Deaths in Workhouse.	Total of Deaths.	General Death Rate	Zymotic Death Rate.
1874	10,578	...	...	205	19·3	1·2
1875	10,700	...	...	247	23·0	2·3
1876	10,820	...	...	239	22·0	1·4
1877	10,940	...	...	198	18·0	0·9
1878	11,060	...	...	226	20·4	2·0
1879	11,182	...	...	243	21·7	1·6
1880	11,291	212	17	229	20·2	2·2
1881	11,410	215	21	236	20·6	0·8
1882	11,522	219	15	234	20·3	1·0
1883	11,635	213	21	234	20·1	1·7
1884	11,748	242	16	258	21·9	4·1
1885	11,861	225	16	241	20·3	1·1
1886	11,974	255	12	267	22·2	1·7
1887	12,087	197	18	215	17·7	1·4
1888	12,200	228	20	248	20·3	0·9
1889	12,313	236	30	266	21·6	2·9
1890	12,425	289	26	315	25·3	2·3
1891	12,539	235	28	263	20·9	0·7
1892	12,651	211	18	229	18·1	1·1
1893	12,764	290	22	312	24·4	4·0
1894	12,877	193	21	214	16·6	1·3
1895	13,000	250	18	268	20·6	2·5
1896	13,120	228	21	249	18·9	2·2
1897	13,233	222	15	237	17·9	1·5
1898	13,350	229	21	250	18·7	2·6

The following Table gives the number of deaths at different ages for the years 1890 to 1898 inclusive :—

	1898	1897	1896	1895	1894	1893	1892	1891	1890
Under 1 year	71	65	67	84	46	90	52	53	65
1 year and under 5	25	17	22	26	20	31	20	13	35
5 years ,, 15	8	10	11	6	8	9	7	11	12
15 ,, ,, 25	11	10	15	15	14	15	11	12	16
25 ,, ,, 35	14	15	21	11	8	20	10	12	24
35 ,, ,, 45	17	13	14	10	10	16	10	8	16
45 ,, ,, 55	21	10	10	12	17	26	23	22	25
55 ,, ,, 65	19	17	23	18	23	29	14	28	26
65 ,, and upwards	64	78	66	86	68	76	82	104	96
	250	237	249	268	214	312	229	263	315

The mortality for the year was again below the average, that of children under 5, and persons over 65 years of age forming 64 per cent. of the total.

The mortality from Diseases of the Respiratory Organs was below, whilst that of consumption was the average.

Owing to successive outbreaks of Influenza, Diarrhœa, and Typhoid Fever, which accounted for 32 deaths, the health of the Borough for the year 1898 could not be considered good, although the death rate was only the average of the last five years.

The most gratifying feature of this Report is the fall in the average general death rate during the last five years. It has fallen 4 per 1000 as compared with the previous five, and 2 per 1000 as compared with the fifteen years from 1874 to 1888.

The Zymotic death rate has increased during the past fifteen years. The mortality from Measles and Whooping Cough during the last ten years is nearly double that of the preceding ten, whilst that of Scarlet Fever has considerably diminished. Of course, the mean Zymotic death rate of these diseases is not of great value, as a serious outbreak of any one of them, may temporarily raise the Zymotic mortality of a town under the best Sanitary administration. It is only the persistent and high mortality of such diseases as Enteric Fever,

Diarrhœa, Diphtheria and Phthisis, that points to the bad sanitary condition of the town or district in which they exist.

The death rate from Diarrhœa during the last ten years is about 30 per cent. higher than the permissible one. Nearly 80 per cent. of the deaths occur in infants under one year of age, the principal cause of this mortality being improper feeding. I would suggest to your Committee the advisability of giving instructions to the Printer of the Corporation to print and distribute hand-bills, not later than the first of July, similar to those printed and circulated in 1897.

The mortality from Diphtheria for the past five years is more than double the permissible one, although you will notice that no death was recorded from this disease during 1898.

The death rate from Consumption during the last fifteen years has remained stationary, and is not too high by comparison.

The decided fall in the mortality of Typhoid Fever during the last five years may be taken as an evidence of the improved sanitary condition of the Borough, and is, in a great measure, owing to the introduction of systematic night-soil collection.

When we consider that during the two quinquennial periods, from 1884 to 1893, thirty-five persons died in each period from Typhoid Fever as compared with thirteen in the quinquennial period from 1894 to 1898, or nearly in the proportion of three to one, there is reason for congratulation on the part of your Committee; and when the private drainage of the town is properly trapped, and the sewers efficiently flushed, we may confidently expect another fall in the death rate from this disease, although at present the rate is below what is called the permissible or unavoidable one.

CONSTITUTIONAL DISEASES.

CANCER.

Malignant Disease, caused 11 deaths, viz :—

Cancer of Stomach	3
,, ,, Liver	2
,, ,, Uterus	2
,, ,, Breast	1
,, ,, Ovaries...	1
,, ,, Bladder...	1
,, ,, Œsophagus	1
	11

Number of deaths from Malignant Disease, 1895	13
,, ,, ,, ,, 1896	9
,, ,, ,, ,, 1897	7

PHTHISIS.

The number of deaths from this disease was 22. The death rate was 1·6 per 1000.

Table showing the number of deaths from Consumption at different ages for the past 19 years :—

Ages	0-1	1-5	5-15	15-25	25-35	35-45	45-55	55-65	65-75	Total.
1880 ...	1	...	2	6	6	...	...	3	1	19
1881 ...	...	...	...	9	6	1	2	1	...	19
1882 ...	1	3	2	3	7	6	2	...	1	25
1883 ...	2	2	2	1	8	2	2	2	...	21
1884 ...	...	1	...	2	4	4	1	1	2	15
1885 ...	...	...	1	5	6	4	...	1	...	17
1886 ...	...	...	2	6	2	5	3	1	1	20
1887 ...	...	1	1	4	9	3	1	1	...	20
1888 ...	...	...	3	8	4	2	6	4	...	27
1889 ...	...	...	5	2	7	5	3	2	...	24
1890 ...	3	...	...	6	6	5	3	1	1	25
1891 ...	...	1	3	6	5	1	1	...	...	17
1892 ...	...	...	2	2	5	4	2	1	1	17
1893 ...	...	3	3	3	6	2	1	2	...	20
1894 ...	...	...	3	4	3	2	1	1	1	15
1895 ...	1	...	1	6	3	2	4	2	1	20
1896 ...	...	2	1	8	7	2	1	...	...	21
1897 ...	...	1	6	5	8	5	1	1	...	27
1898 ...	...	2	...	7	6	4	2	1	...	22
	8	16	37	93	108	59	36	25	9	391

Average annual death rate from Phthisis in successive quinquennia from 1884 to 1898 inclusive :—

1884 to 1888....	No. of deaths, 99 ;	average death rate	1·6	per 1,000.
1889 to 1893....	,, 103 ;	,,	1·6	,,
1894 to 1898....	,, 105 ;	,,	1·6	,,

The permissive death rate from the above disease is 1·5 per 1,000 per annum.

DISEASES OF THE RESPIRATORY SYSTEM.

These diseases, other than Consumption, caused 30 deaths as against 31 in the previous year, 38 in 1896, and 37 in 1895. The death rate was 2·2 per 1,000.

DISEASES OF THE NERVOUS SYSTEM.

Nineteen deaths were recorded under this heading due to Apoplexy, Convulsions, and Meningitis.

DEVELOPMENTAL DISEASES.

These diseases caused 34 deaths, 17 being due to old age, 12 to premature birth, and 3 to senile gangrene.

DISEASES OF THE CIRCULATORY SYSTEM.

Twenty-three deaths occurred under the above heading as against 22 in the previous year.

CONSTITUTIONAL DISEASES.

Forty-six deaths were due to the above causes, 11 of these being cancer and 22 consumption.

INQUESTS.

Thirteen inquests were held during the year as compared with 12 in 1897, 14 in 1896, and 14 in 1895.

PUBLIC BATHS.

Seven thousand two hundred and twenty one persons have availed themselves of the Public Baths in Ladygate during the year.

The deficit on the year's account amounted to £41 : 16 : 9.

Report on the Mortality and Condition of the District---Table shewing the Deaths Registered from all causes, with Classification of Ages, from 1st January to the 31st December, 1898, inclusive.

Population in 1891.	4345	2673	5521	AGES.										Total.
Deaths from	St. Martin.	St. Nicholas.	St. Mary.	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 and up'ards.	
I.—Specific Febrile, or Zymotic Diseases														
1.—Miasmatic Diseases.														
Measles	4	...	.	1	3	...	...	...	...	...	...	..	...	4
Scarlet Fever	1	...	1	...	2	...	...	...	..	...	...	...	...	2
Whooping Cough	2	...	2	1	3	...	...	...	...	...	...	...	...	4
Enteric or Typhoid Fever	1	2	2	...	...	2	1	1	1	.	...	...	...	5
Influenza	3	3	...	...	...	...	1	1	...	1	...	3	...	6
2.—Diarrhœal Diseases.														
Diarrhœa	7	9	5	11	3	...	...	..	...	2	1	1	3	21
Tropical Dysentery	1	...	...	...	...	...	.	...	1	...		...	...	1
3.—Septic Diseases.														
Pyæmia, Septicæmia	...	...	1	...	...	...	...	...	...	...	1	...	...	1
II.—Dietetic Diseases.														
Want of Breast Milk, Starvation, Improper Feeding	1	1	...	2	...	...	...	..	...	...	...	...	...	2
Chronic Alcoholism	1	...		...	...	...	..	...	1	.		...	...	1
III.—Constitutional Diseases.														
Rheumatic Fever, Rheumatism of the Heart		...	1	..	...	...	..	...	1	...	...	...	...	1
Rickets	1	1	...	2	..	...	...	...	...	. .	...	.	..	2
Cancer, Malignant Disease	3	2	6	...	...	...	...	...	...	2	3	2	4	11

Report of the Mortality, &c.---continued.

Population in 1891.	4345	2673	5521	AGES.										Total.
Deaths from	St. Martin.	St. Nicholas	St. Mary	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 and up'ards.	
Tabes Mesenterica	1	.	1	1	1	...	...	...	...	...	...	...	...	2
Tubercular Meningitis, Hydrocephalus	3	1		1	1	1	...	1	...	...	...	...	...	4
Phthisis	5	7	10	...	2	...	7	6	4	2	1	...	...	22
Anæmia, Chlorosis, Leucocythæmia	1	...	1	...	.	...	...	2	...	...	...	.	...	2
Glycosuria, Diabetes Mellitus	...	1	1	...	...	..	...	...	...	1	...	1	...	2
IV.—Developmental Diseases.														
Premature Birth	9	2	1	12	...	...	...	...	...	...	...	...	...	12
Congenital Malformations	1	...	1	2	...	...	...	...	...	...	...	...	...	2
Old Age	4	...	13	...	...	...	...	...	...	..	...	3	14	17
Senile Gangrene	2	...	1	...	...	...	...	...	...	...	1	1	1	3
V.—Local Diseases.														
1.—Diseases of Nervous System.														
Inflammation of Brain or Membranes	2	...	...	1	1	...	..	...	...	...	...	...	...	2
Apoplexy, Softening of Brain, Hemiplegia, Brain Paralysis	4	2	6	...	. .	...	...	..	1	2	3	3	3	12
Convulsions	1	3	..	3	1	...	...	...	...	...	...	...	...	4
Bulbar Paralysis	...	...	1	..	...	...	...	...	...	...	...	...	1	1
2.—Diseases of Circulatory System.														
Endocarditis	2	1	1	...	...	...	..	...	...	...	...	2	2	4
Valvular Diseases of Heart	7	3	6	...	...	..	1	...	2	3	2	4	4	16
Aneurism	1	...	...	...	...	...	...	...	...	...	...	1	...	1
Syncope	1	...	...	...	...	...	...	...	1	...	...	...	...	1
Angina Pectoris	1	...	...	...	...	...	...	...	1	...	...	...	...	1

Report of the Mortality, &c.---continued.

Population in 1891.	4345	2673	5521	AGES.										Total.
Deaths from	St. Martin.	St. Nicholas.	St. Mary.	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 and up'ards.	
3.—Diseases of Respiratory System.														
Emphysema, Asthma	...	...	2	...	...	...	...	...	...	...	...	2	...	2
Bronchitis	9	4	6	8	2	1	...	1	...	...	1	2	4	19
Pneumonia	2	...	2	2	1	...	...	...	...	1	...	...	...	4
Pleurisy	...	...	1	...	...	...	...	...	...	1	...	...	...	1
Broncho-Pneumonia	1	2	...	1	1	...	...	...	...	1	...	...	...	3
Pulmonary Œdema	...	1	...	...	...	...	...	...	..	...	...	...	1	1
4.—Diseases of Digestive System.														
Dentition	1	1	1	2	1	...	...	...	...	...	...	...	...	3
Sore Throat, Quinsy	...	...	1	...	1	...	...	...	...	...	...	...	...	1
Diseases of Stomach	...	...	1	1	...	...	...	...	...	...	...	...	...	1
Enteritis and Dysentery	2	...	...	2	...	...	...	...	...	...	...	...	...	2
Volvulus	...	...	1	...	..	...	...	...	...	...	1	...	...	1
Cirrhosis of Liver	1	1	1	...	...	...	...	...	1	...	1	1	...	3
Phagadena of Mouth	1	...	...	...		...	...	...	...	1	...	..	...	1
Stricture of Œsophagus	...	...	1	...	...	...	...	...	...	...	1	...	...	1
5.—Diseases of Urinary System.														
Nephritis	2	...	1	...	...	1	...	...	...	1	...	1	...	3
Bright's Disease, Albuminuria	1	...	...	...	...	...	...	...	...		1	...	...	1
Disease of Bladder or of Prostate	...	...	1	...	...	...	...	...	...	1	...	...	...	1
6.—Diseases of Reproductive System.														
A. *Female Organs.*														
Menorrhagia	1	...	...	...	...	...	...	1	...	...	...	...	...	1

Report of the Mortality, &c.---continued.

Population in 1891.	4345	2673	5521	AGES.										
Deaths from	St. Martin.	St. Nicholas.	St. Mary.	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 and up'ards.	Total.
B. *Of Parturition.*														
Abortion, Miscarriage	1	...	...	...	..	...	1	...	...	...	...	...	...	1
Premature labour, hæmorrhage	1	...	...	...	...	...	...	...	1	...	...	...	...	1
7.—Diseases of Integumentary System.														
Carbuncle	1	...	...	...	...	...	...	..	...	...	1	...	...	1
VI.—VIOLENCE.														
1.—Accident or Negligence.														
Gunshot Wounds	...	1	...	...	...	...	...	1	...	...	...	...	...	1
Burn, Scald	...	1	1	..	..	2	...	...	...	..	...	...	...	2
Poison	...	.	1	...	...	...	...	...	...	1	...	...	...	1
Drowning	...	2	...	...	...	1	...	...	...	1	...	...	...	2
2.—Suicide.														
Cut Throat	..	1	1	...	...	...	...	...	1	...	1	...	...	2
Hanging	1	...	...	...	...	...	...	...	1	...	...	...	...	1
VII.—Ill Defined and not Specified Causes.														
Debility, Atrophy, Inanition	9	7	4	18	2	...	...	...	...	...	...	...	...	20
Totals	104	59	87	71	25	8	11	14	17	21	19	27	37	250

SUMMARY OF PRECEDING TABLE.

	St. Martin.	St. Nicholas.	St. Mary.	Total.
1. Specific Febrile, or Zymotic Diseases—				
Miasmatic Diseases	11	5	5	21
Diarrhœal ,,	8	9	5	22
Septic ,,	...	...	1	1
2. Dietetic Diseases—				
Improper Feeding	1	1	...	2
Chronic Alcoholism	1	...	...	1
3. Constitutional Diseases—				
Cancer	3	2	6	11
Phthisis	5	7	10	22
Tubercular Meningitis & Hydrocephalus	3	1	...	4
Other	3	2	4	9
4. Developmental Diseases—				
Premature Birth	9	2	1	12
Old Age	4	...	13	17
Senile Gangrene	2	...	1	3
Other	1	...	1	2
5. Local Diseases—				
Diseases of Nervous System	7	5	7	19
,, Circulatory System	12	4	7	23
,, Respiratory System	12	7	11	30
,, Digestive System	5	2	6	13
,, Urinary System	3	...	2	5
,, Reproductive System	1	...	...	1
,, Parturition System	2	...	...	2
,, Integumentary System	1	...	...	1
6. Violence—				
Burns	...	1	1	2
Drowning	...	2	...	2
Cut Throat	...	1	1	2
Other	1	1	1	3
7. Ill Defined and not Specified Causes—				
Debility, Atrophy, and Inanition	9	7	4	20
	104	59	87	250

ZYMOTIC DISEASES.

The Infectious Disease (Notification) Act, 1889.

The following is a list of the Infectious Diseases notifiable under this Act :—

Small-Pox, Diphtheria, Scarlet Fever, Erysipelas, Typhus Fever, Enteric Fever, Relapsing Fever, Continued Fever, Puerperal Fever, and Cholera.

Measles, Whooping Cough, and Diarrhœa are Zymotic Diseases not notifiable under the Act.

The number of notifications received during the year was 59 as against 67 in the previous year.

The notifications received were as follows, viz :—Enteric Fever, 29; Scarlet Fever, 13; Erysipelas, 8; Diphtheria, 5; Simple Continued Fever, 2; Puerperal Fever, 1; and Small-Pox, 1.

These were distributed through the months of the year as follows.

	Small Pox.	Enteric Fever.	Continued Fever.	Diphtheria.	Scarlet Fever.	Erysipelas.	Puerperal Fever.	Total.
January ...	...	1	...	...	7	1	1	9
February...	...	2	...	...	1	...	...	4
March	..	...	...	...	...	2	...	2
April	...	1	...	...	2	...	...	3
May.....	...	...	...	...	...	...	...	0
June.....	1	...	...	...	...	...	...	1
July	...	2	...	4	...	2	...	8
August.....	...	2	...	...	1	...	...	3
September .	...	4	...	1	1	...	...	6
October ...	...	13	1	.	...	2	...	16
November .	...	3	1	...	...	1	...	5
December ..	...	1	...	...	1	...	...	2
	1	29	2	5	13	8	1	59
1897.....	2	16	0	11	19	19	0	67
1896.....	1	12	0	14	22	4	2	55
1895.....	1	22	2	13	14	9	2	63
1894.....	0	8	0	11	27	2	0	48
	5	87	4	54	95	42	5	292

Table giving the number of deaths from the seven principal Zymotic diseases, and as compared with the five previous years :—

	1898.	1897.	1896.	1895.	1894.	1893.
Small Pox	...	...	...	...	...	2
Typhoid and Simple Continued Fevers	5	1	1	5	1	15
Diphtheria and Croup	...	2	7	2	6	2
Whooping Cough	4	6	6	...	2	4
Scarlet Fever	2	1	1	1	...	...
Diarrhœa ...	21	8	12	22	...	29
Measles ...	4	2	2	3	8	...
	36	20	29	33	17	52

The Zymotic death rate for the year, exclusive of diarrhœa, was 1·1 per 1,000.

The following Table gives the number of deaths from the seven principal Zymotic diseases for the years 1874 to 1898 inclusive :—

Year.	Small Pox.	Diphtheria.	Whooping Cough.	Measles.	Scarlet Fever.	Diarrhœa.	Typhus.	Enteric	Other.	Total.
1874	.	2	...	1	2	5	..	2	1	13
1875	..	4	3	1	1	9		1	6	25
1876	...	...	1	1	1	10	...		3	16
1877	...	...	...	3	1	5	...		1	10
1878	...	. .	...	1	4	14	.	2	2	23
1879	..		...	...	14	2	...	3	...	19
1880	...	1	3	6	2	11	...	2	...	25
1881	...	..	4	...	2	...	...	2	2	10
1882	...	1		..	4	1		4	2	12
1883	...	6	...	4	...	7	...	2	1	20
1884	..	6	2	...	...	22	..	16	3	49
1885	...	4	3	...	...	2	...	5	...	14
1886	...	3	1	5	...	5	...	7	...	21
1887	1	3	3	..	...	9	...	2	...	18
1888	2	5	2	...	...	...	...	...	2	11
1889	...	1	...	6	12	13	...	3	1	36
1890	...	...	7	4	1	6	...	11	...	29
1891	...	3	...	...	...	3	...	4	...	10
1892	...	5	...	3	...	6	...	1	...	15
1893	2	2	4	...	...	32	...	14	1	55
1894	...	6	2	8	...	.	...	1	...	17
1895	...	2	...	3	1	22	...	5	...	33
1896	...	7	6	2	1	12	...	1	...	29
1897	...	2	6	2	1	8	...	1	...	20
1898	...	...	4	4	2	21	...	5	...	36
	5	63	51	54	49	225	...	94	25	566

FEVER.

This term includes the three forms—Typhus, Typhoid, and Simple Continued Fever. The number of cases notified under the above heading was 31—Typhoid Fever 29—and Simple Continued Fever 2—Five of the Typhoid Fever cases died, giving a mortality of 17·2 per cent. on the cases notified.

TYPHOID FEVER.

These cases occurred in 26 Households in three of which there were multiple cases. One of the infected houses had no drainage, and on applying the smoke test to the drainage of the remaining houses it was found that 19 were well drained and the remaining 6 were deficient in that respect. The water supply of these houses was—Public pumps, 11; Private pumps, 8; Waterworks water, 5; and Pumps and Waterworks water, 2; where any suspicion pointed to water as the cause of the disease it was chemically analysed and invariably found to be pure. In the autumn of dry seasons Typhoid Fever generally appears in certain localities of the Borough, such as Walkergate, Keldgate, Wilbert Lane, East side of Grovehill Road, Sloe Lane, &c. &c. In former years it has appeared in York Terrace and Westfield, but no case has been notified as having occurred beyond the North Bar for some years.

Table showing average annual death rate from Typhoid Fever in successive Quinquennia from 1874 to 1898 inclusive:—

1874 to 1878	No of deaths	18	Average death rate,		0·33	per 1,000
1879 to 1883	,,	18	,,	,,	0·31	,,
1884 to 1888	,,	35	,,	,,	0·58	,,
1889 to 1893	,,	35	,,	,,	0·55	,,
1894 to 1898	,,	13	,,	,,	0·19	,,

The permissive or unavoidable death rate from this disease is 0·2 per 1,000 per annum.

Owing to the notification of these cases the following Sanitary precautions were enabled to be taken :—

Isolation was carried out as far as it was possible to do so in four-roomed cottages, where most of the cases occurred.

Disinfectants were freely distributed, and pails for the collection of the dejecta from the patients were supplied and emptied daily.

Each household was likewise supplied with a handbill giving concise instructions regarding the nature of the disease, isolation, and disinfection.

SCARLET FEVER.

Thirteen cases of the above disease were reported during the year, two proving fatal.

MEASLES.

Four deaths were registered from Measles as against 2 in 1897 and 2 in 1899.

WHOOPING COUGH.

Four deaths were due to Whooping Cough as against 6 in 1897 and 6 in 1896.

DIPHTHERIA AND CROUP.

Five cases of the above diseases were notified during the year, none of which proved fatal.

The following Table gives a list of deaths from Diphtheria and Croup, at different ages, for the last 19 years :—

	Under 1 year.	1 year and under 2.	2 years and under 3.	3 years and under 4.	4 years and under 5.	5 years and under 6.	7 years and under 7.	7 years and under 8.	8 years and under 9,	9 years and under 10.	10 years and under 21.	Total.
1880	...	1	...	...	...	...	...	...	...	...	...	1
1881	...	...	...	...	...	...	...	...	...	...	...	...
1882	...	...	..	...	1	...	...	..	...	...	...	1
1883	1	2	2	1	...	...	...	...	...	...	...	6
1884	1	1	...	2	...	1	1	...	...	...	...	6
1885	...	1	2	...	...	1	...	...	...	...	...	4
1886	...	2	...	1	...	...	...	...	...	...	...	3
1887	1	.	...	...	1	1	...	...	...	...	...	3
1888	...	2	...	...	1	...	...	1	...	...	1	5
1889	...	...	...	...	...	...	1	...	...	...	...	1
1890	...	...	...	...	...	...	...	...	...	...	...	...
1891	...	...	1	...	1	1	...	...	...	...	...	3
1892	...	2	1	...	...	1	1	...	...	...	...	5
1893	...	...	1	...	1	...	...	...	...	...	...	2
1894	...	...	2	1	1	1	...	1	...	...	...	6
1895	...	1	...	...	...	...	...	...	1	...	...	2
1896	...	1	2	2	1	1	...	...	...	...	...	7
1897	1	...	...	.	...	...	...	1	...	...	...	2
1898	...	...	...	...	...	...	...	...	...	...	...	...
	4	13	11	7	7	7	3	3	1	...	1	57

The number of death registered under the above heading for the last 19 years was 57 ; all but two of which occurred under 8 years of age. No child died from this disease over 11 years, and no adult at any age.

Average annual death rate from Diphtheria and Croup in successive quinquennia from 1874 to 1898 inclusive :—

1874 to 1878. No. of deaths 6, average death rate 0·11 per 1,000.
1879 to 1883. ,, 8, ,, 0·14 ,,
1884 to 1888. ,, 21, ,, 0·35 ,,
1889 to 1893. ,, 11, ,, 0·17 ,,
1894 to 1898. ,, 17, ,, 0·25 ,,

The permissible death rate from this disease is 0·1 per 1,000 per annum.

INFLUENZA.

Table showing number of deaths at different ages since its first appearance in the town in 1890:—

Year.	Between 1 and 5.	Between 5 and 15.	Between 15 and 25.	Between 25 and 35.	Between 35 and 45.	Between 45 and 55.	Between 55 and 65	Between 65 and 75.	Over 75 years.	Total.
1890	...	1	...	...	...	...	1	...	...	2
1891	...	...	...	...	...	4	2	...	1	7
1892	...	1	...	...	...	1	...	1	0	3
1893	...	...	...	...	...	...	...	...	1	1
1894	...	...	...	...	...	...	...	...	...	...
1895	...	1	...	...	1	...	1	1	1	5
1896	...	...	...	...	...	1	1	...	...	2
1897	1	...	1	...	...	1	...	1	...	4
1898	...	...	1	1	...	1	...	3	...	6
	1	3	2	1	1	8	5	6	3	30

DIARRHŒA.

The number of deaths from Diarrhœa during the year was 21 as against 8 in the previous year, and 12 in 1896, and 22 in 1895.

The following Table gives the number of deaths from Diarrhœa during the last nineteen years, and the ages at which the deaths occurred :—

	3 months and under.	Between 3 and 6 months.	Between 6 and 9 months.	Between 9 and 12 months.	Between 12 and 18 months.	Between 18 and 24 months.	Between 2 and 3 years.	Between 35 and 55 years.	Between 55 and 65 years.	Between 65 and 75 years.	Over 75 years.	Total.
1880	2	4	2	...	...	1	1	...	...	1	...	11
1881	...	...	...	...	...	...	...	...	...	...	...	0
1882	...	...	...	...	...	...	...	...	...	...	1	1
1883	1	1	3	1	1	...	...	...	...	...	...	7
1884	9	5	2	1	2	...	...	...	1	1	1	22
1885	...	1	...	1	...	...	...	...	...	...	...	2
1886	1	1	...	1	1	1	...	...	...	...	...	5
1887	3	4	...	2	...	...	...	...	...	...	...	9
1888	...	...	...	...	...	...	...	...	...	...	...	0
1889	4	1	3	2	1	1	...	...	1	...	...	13
1890	2	2	...	1	1	...	...	...	...	...	...	6
1891	1	1	...	...	...	...	...	...	1	...	...	3
1892	4	2	...	...	...	...	...	...	...	...	...	6
1893	12	1	3	7	2	1	1	1	...	2	2	32
1894	...	...	...	...	...	...	...	...	...	...	...	0
1895	9	6	2	3	1	...	...	...	...	...	1	22
1896	4	2	3	1	2	...	...	...	...	...	...	12
1897	4	3	...	1	...	...	...	...	...	...	...	8
1898	1	5	4	1	1	2	...	2	1	1	3	21
	57	39	22	22	12	6	2	3	4	5	8	180

It will be seen from the above Table that 77 per cent. of the deaths from diarrhœa occurred in Infants under one year of age.

The following table gives the months of the year in which the above deaths were recorded.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Total.
1880	...	...	...	...	...	...	...	2	6	3	...	...	11
1881	...	...	...	...	...	...	...	...	...	...	...	...	0
1882	...	...	...	...	...	...	...	...	1	...	...	...	1
1883	...	1	...	...	...	...	...	2	1	2	1	...	7
1884	...	...	...	...	...	2	...	10	8	...	1	1	22
1885	1	...	...	...	1	...	...	...	...	...	...	...	2
1886	...	...	...	...	...	...	...	...	3	2	...	...	5
1887	...	...	...	...	...	...	...	8	1	...	...	...	9
1888	...	...	...	...	...	...	...	...	...	...	...	...	0
1889	...	...	...	...	...	...	...	6	5	1	...	1	13
1890	...	...	...	...	...	...	1	1	1	2	1	...	6
1891	1	...	1	...	...	...	...	1	...	...	...	...	3
1892	...	...	...	1	1	...	2	1	...	1	...	...	6
1893	...	...	...	...	...	...	5	19	7	...	1	...	32
1894	...	...	...	...	...	...	...	...	...	...	...	...	0
1895	...	...	...	...	...	...	...	4	12	6	...	...	22
1896	...	...	...	...	...	2	3	5	...	2	...	...	12
1897	...	...	...	...	...	1	...	4	2	1	...	...	8
1898	...	...	...	...	2	...	...	2	11	4	2	...	21
	2	1	1	1	4	5	11	65	58	24	6	2	180

Average annual death rate from Diarrhœa in successive quinquennia from 1874 to 1896 inclusive.

1874 to 1878—No. of deaths	43	—Average death rate		0·79	per 1,000	
1879 to 1883	,,	21	,,	,,	0·36	,,
1884 to 1888	,,	38	,,	,,	0·63	,,
1889 to 1893	,,	60	,,	,,	0·95	,,
1894 to 1898	,,	63	,,	,,	0·96	,,

The permissible death rate from the disease is 0·6 per 1000 per annum.

SANITATION.

Every house in which infectious disease is notified is visited, but there is no systematic inspection of the district as required under Sect. 92 of the Public Health Act.

A house-to-house inspection of the Borough ought to be made every few years, and all sanitary defects found should be immediately remedied.

Under this heading I desire to point out to your Committee that the drainage of a large number of the houses in the Borough is defective, owing to want of proper trapping. The drains of these houses are trapped by the old brick catchpits, which are utterly valueless as traps, and only serve for the collection of decaying filth, the production of foul smells, and the dissemination of disease. These catchpits ought to be abolished, and replaced by sanitary gullies.

The drainage of 25 per cent. of the houses in which Typhoid Fever occurs is defective, through want of proper trapping.

The slaughter-houses are systematically visited, and so are the lodging-houses.

FOOD INSPECTION.

The markets have been regularly inspected, but no meat, fish, fruit, or vegetables have been condemned during the year as unfit for food. Samples should be periodically taken under this Act and submitted for analysis.

FLUSHING, AND DISTRIBUTION OF DISINFECTANTS.

Disinfectants are freely and gratuitously distributed to all who require them, and, when necessary, house drains are flushed daily with disinfectants, especially in households attacked with Enteric Fever.

INFECTIOUS DISEASES HOSPITAL.

The question of the establishment of an Infectious Diseases Hospital in the Borough has been several times under discussion in your Committee, but nothing definite has yet been determined on. Should Small-pox become more prevalent—as the great majority of

medical men believe—owing to the operation of the recent Vaccination Act, it will be more necessary than ever that a town like Beverley should be possessed of a Hospital where isolation can be properly carried out. For whatever difference of opinion there may be as to the efficacy of vaccination, there can be none as regards prompt and efficient isolation being the best means of dealing with an outbreak of this disease.

COMMON LODGING-HOUSES.

At present there are four registered houses in the Borough, affording accommodation for 160 lodgers. The cubical space allowed for each individual is three hundred cubic feet. Two of the houses have been recently built and are well adapted for the purposes they serve. The other two are old, the rooms small, ill-ventilated, and badly lighted, rendering them unsuitable for the purpose of lodging houses.

These houses are regularly and carefully inspected by Superintendent Knight, and there was no overcrowding or case of infectious disease in any of them during the year.

APPENDIX.

STREET LIST OF NOTIFIABLE DISEASES.

	Typhoid Fever.	Simple Continued Fever.	Diphtheria.	Scarlet Fever.	Erysipelas.	Puerperal Fever.	Small Pox.	Total.
Beckside	1	...	...	...	1	...	...	2
Bogle Lane	2	...	...	...	...	...	...	2
Burgess Yard	...	...	...	...	1	...	...	1
Cherry Tree Terrace ...	3	...	.	...	...	...	...	3
Duncum's Yard	1	...	...	...	...	...	...	1
Grovehill	1	...	...	...	...	...	...	1
George Street	...	...	...	2	...	...	...	2
Hind's Yard	1	...	...	...	...	...	...	1
Holme Church Lane ...	...	...	1	1	1	...	...	3
Keldgate	1	...	...	1	...	...	...	2
Lairgate	2	1	...	...	...	...	...	3
Ladygate	1	...	...	...	...	...	...	1
Market Place	...	...	...	1	...	...	...	1
Mill Lane	2	...	...	3	...	...	...	5
New Walk	...	...	...	2	...	...	...	2
North Bar Within ...	1	...	...	...	...	...	...	1
Pasture Terrace	...	...	1	...	...	...	...	1
Park Terrace	...	...	...	...	1	...	...	1
Sloe Lane	1	...	...	...	...	...	...	1
St. Andrew Street ...	1	...	...	1	...	...	...	2
Stonemason's Yard ...	1	...	...	...	...	...	...	1
Tindall Lane	...	...	...	...	1	...	...	1
Vicar Lane	...	...	...	...	1	...	...	1
Woodlands	...	...	...	...	...	1	...	1
Willow Grove	1	...	...	...	...	...	...	1
Westwood Road... ...	...	1	3	...	1	...	...	5
Wilbert Lane	1	...	...	...	...	...	1	2
Walkergate	6	...	...	1	...	...	...	7
Well Lane	1	...	...	...	...	...	...	1
Trinity Lane	...	...	...	...	1	...	...	1
York Road	...	...	...	1	...	...	...	1
Eastgate	1	...	...	...	...	...	...	1
	29	2	5	13	8	1	1	59

TYPHOID FEVER.

The following Table gives the number of cases, locality, number of cases in household, month in which the disease occurred, occupation, water supply, milk supply, and result of smoke test of drains.

No.	Locality.	No. of Cases in Household	Month of Attack.	Age.	Occupation.	Water Supply.	Milk Supply.	Drainage as tested by Smoke Test.	
1	Bogle Lane	2	January ...	6	School Girl	Private Pump...	A.	Good.	
2	Do.	...	Do. ...	38	Married Woman...	Do. ...	A.	Good.	
3	Willow Grove.....	1	February ...	11	School Girl	Waterworks ..	B.	Good.	Norwood School.
4	Duncum's Yard	1	August ...	11	School Boy	Public Pump ...	C.	Good.	Minster Boys' School.
5	Wilbert Lane	1	Do. ...	21	Joiner	Do. ...	D.	Good.	
6	St. Andrew Street...	1	Do. ...	20	Married Woman...	Private Pump...	E.	Good.	
7	Sloe Lane.....	1	Do. ...	13	School Girl	Waterworks ...	F.	Defective.	
8	Norwood	1	Do. ...	14	School Boy	Private Pump & Waterworks...	G.	Defective.	
9	Walkergate.....	1	September..	24	Gasfitter	Public Pump & Waterworks...	C.	Good.	
10	Fastgate	1	Do. ...	22	Engine Fitter ...	Public Pump ...	H.	Good.	
11	Walkergate.....	1	Do. ...	21	Shop Assistant ...	Private Pump...	C.	Good.	
12	Do.	2	Do. ...	25	Hawker	Public Pump ...	C.	Good.	
13	Do.	...	October.....	16	Do.	Do. ...	C.	Good.	
14	Do.	1	Do. ...	33	Brewer	Do. ...	C.	Good.	
15	Hind's Yard	1	Do. . .	16	Labourer	Do. ...	E.	Good.	
16	Well Lane	1	Do. .	19	Coach Builder.....	Do. ...	K.	Good.	
17	Mill Lane.....	1	Do. ...	23	Married Woman...	Private Pump...	L.	Defective.	
18	Do.	1	Do. ...	54	Do. ...	Do. ...	L.	Defective.	
19	Cherry Tree Terrace.	2	Do. ..	38	Rullyman..... .	Waterworks ...	M.	Good.	
20	Do. ..	...	Do. ..	8	School Boy	Do. ...	M.	Good.	
21	Beckside	1	Do. ...	34	Married Woman...	Private Pump...	N.	No drainage	
22	North Bar Within...	1	Do. ...	25	Do. ...	Public Pump ...	O.	Defective.	
23	Ladygate	1	Do. ...	19	No occupation.....	Waterworks ...	P.	Good.	Cesspit in yard.
24	Lairgate	1	Do. ...	40	Married Woman...	Private Pump...	Q.	Good.	
25	Stonemason's Yard..	1	Do. ...	37	Painter..	Public Pump ...	C.	Good.	
26	Kehlgate	1	November..	28	Married Woman...	Do. ..	E.	Good.	
27	Walkergate.....	1	Do. ...	13	No occupation.....	Do. ...	R.	Good.	
28	Lairgate	1	Do. ..	12	School Girl	Waterworks ...	S.	Defective.	
29	Cherry Tree Terrace.	1	December...	25	Bricklayer	Private Pump...	E.	Good.	

Report of Mr. Tom Watson, on the Dairies, Cow-sheds, and Milk-shops in the Borough.

I have made a monthly inspection of all the Dairies and Cowsheds, &c. within the Borough, and taking them generally they are kept in a satisfactory condition.

During the year, I have had the Drainage of several of the Cow-sheds altered in accordance with the regulations. There are several more I shall have attended to during the summer months.

At the present time there are 62 Cowkeepers or Milksellers within the Borough, an increase of 4 from the previous year and 273 Cows, an increase of 11.

I may add that a quantity of Milk comes into the Town from districts outside the Borough, and the premises from which these supplies come are under no regulations.

Annual Report of Mr. Tom Watson, Veterinary Inspector, on the Contagious Diseases (Animals) Act.

I beg to submit my Annual Report on the Contagious Diseases (Animals) within the Borough, during the past year.

I am pleased to state that at the present time the Town is quite free from any Contagious Disease, Swine Fever being the only trouble we have had to contend with, of which at present there are no cases within the Borough.

During 1898, 16 cases of suspected Swine Fever were reported; upon investigation only three of these were genuine outbreaks, which necessitated the slaughter of eight animals.

By order of the Board of Agriculture the "Fairs and Markets Order" of 1896 was withdrawn on the 26th of May, 1898, and on the 27th of May, 1898, a new order came into force, called the "Swine Fever (Movement) Order" of 1898, which threw open the Markets for the sale of any description of swine, and which allowed them to be moved about the Country with a License. This innovation I am pleased to state was not followed by any increase in the number of outbreaks of the disease, as may be proved by comparison with the previous year.

1897—3 outbreaks necessitating the slaughter of 15 animals.
1898—3 outbreaks necessitating the slaughter of 8 animals.

From June 1st to December 31st, 1898, there were nearly 2,300 pigs passed through the Borough Market free of disease, with one exception. This shows a great increase compared with the previous year, and with a corresponding decrease of out-breaks of Swine Fever, and shows that this disease is not so prevalent as in former years.